

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 09-156575

(43)Date of publication of application : 17.06.1997

(51)Int.Cl.

B63B 1/38

(21)Application number : 07-337724

(71)Applicant :

KATO YOJI
ISHIKAWAJIMA HARIMA HEAVY IND CO LTD

(22)Date of filing : 04.12.1995

(72)Inventor :

KATO YOJI
TAKAHASHI YOSHIAKI
YOSHIDA YUKI

(54) FRICTION RESISTANCE REDUCTION SHIP

(57)Abstract:

PROBLEM TO BE SOLVED: To provide large friction resistance reduction effect by small power.

SOLUTION: A bow breakage wave introduction passage 3 which introduces a bow breakage wave 6 generated by hitting on a front face of a bow part 2 into a ship bottom side is provided at positions on both port side and starboard side of the bow part 2 of a hull 1. As for the bow breakage wave introduction passage 3, its take-in port 4 is opened on a front side of the bow part and a blow-out port 5 is opened on outboard of the bow part so that the passage 3 is stretched obliquely and downward from the take-in port 4 to the blow-out port 5. The bow breakage wave 6 generated in the front of the bow part is introduced into the ship bottom side through the bow breakage wave introduction passage 3 to use it as minute air bubble for micro-bubble propulsion.



Searching PAJ

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office

SHIGA INT.PAT.

007